

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 03/02270-0

## CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: H01L 21/28, 21/3205, 29/786, 27/00, G02F 1/136, 1/1345, C22F 1/08, C22C 9/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: H01L, G02F, C22F, C22C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI; EPODOC; PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6211084 B1 (NGO et al.) 3 April 2001 (03.04.01) <i>abstract, column 3, lines 8-51.</i>	1,6,10,15
A	US 6329701 B1 (NGO et al.) 11 December 2001 (11.12.01) <i>abstract, claims.</i>	1,6,10,15
A	EP 0260906 A2 (FUJITSU) 23 March 1988 (23.03.88) <i>claims, abstract.</i>	1,6,10,15
A	JP 2000 277456 A (TOSHIBA) 6 October 2000 (06.10.00) <i>fig. 1, abstract.</i>	1,6,10,15
A	US 2002/0123220 A1 (SAMBUCKETTI et al.) 5 September 2002 (05.09.02) <i>abstract.</i>	1,6,10,15
A	US 5932907 A (GRILL et al.) 3 August 1999 (03.08.99) <i>abstract, figs. 1-3, corresponding description.</i>	1,6,10,15

 Further documents are listed in the continuation of Box C. See patent family annex.

## \* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&amp;“ document member of the same patent family

Date of the actual completion of the international search

19 December 2003 (19.12.2003)

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10 March 2004 (10.03.2004)

Name and mailing address of the ISA/AT

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 08 102502 A (IBM) 16 April 1996 (16.04.96) <i>figures, abstract.</i>	1,6,10,15
A	US 2002/0096681 A1 (YAMAZAKI et al.) 25 July 2002 (25.07.02) <i>abstract.</i>	1,6,10,15
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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No. <b>PCT/KR 03/02270-0</b>
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Patent document cited in search report			Publication date	Patent family member(s)		Publication date
EP A	260906			DE T 3784605T		1993-06-17
				DE D 3784605D		1993-04-15
				KR B 9007147		1990-09-29
				EP A 0260906		1988-03-23
				JP A 63073645		1988-04-04
				JP A 1059938		1989-03-07
JP A	8102502A 2			none		
JP A	20002774 56A2			none		
US A	20020096 681			none		
US A	20020123 220			none		
US A	5932907	1999-08-03		JP A 11074484		1999-03-16
US B	6211084	2001-04-03		none		
US B	6329701	2001-12-11		none		